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THE CITIZEN.

FRIDAY, - - NOVEMBER 30, 1877.

Captain Eads Again.

In our issue of the 10th instant we gave our readers a minute description of the gigantic structure Mr. Eads contemplates throwing across the Bosporus. The magnitude of this undertaking is well appreciated by the projector of the plan, and a less brave and indomitable spirit than Captain Eads possesses, would shrink from a work of such stupendous proportions.

When Mr. Eads began his engineering works in the Mississippi mouth, the public shrugged it shoulder heavily and doubted the feasibility of the undertaking. But the practical success, the "jetty's" evinces, the wonderful energy and skill of the engineer, and should he determine to carry out his Bosporus bridge project, great assurance will be entertained in early and complete success.

We notice by late advices from Port Eads that the jetties have just been subjected to a severe test, a rough "norther" prevailed with the wind, 57 miles an hour. In alluding to this breeze the Missouri Republican says:

"The force of the wind was greater than any experienced since the jetties were begun. Subsequent soundings showed a general improvement of the channel, with 22.3 feet as the least depth on the crest of the bars."

All the large ships and steamers use the jetty channel; the South pass being the only outlet now recognized by the government. None suffer detention, but the largest sailing vessels are readily taken through with the aid of only one tow boat. Formerly at South-west pass all large ships required two tow-boats at least, and were sometimes aided by the government dredge boats.

Not only are large vessels sure of easy passage through the jetty channel, but their expenses are greatly reduced.

Inasmuch as Mr. Eads has demonstrated the practical success of the jetties it may be of interest to some to recall the terms of the contract under which the undertaking was begun.

On this subject the American Manufacturer says: The terms of the bill provided for a payment in all of \$7,250,000, this amount to be paid in installments, subject to certain conditions. The first payment was made in February last for a channel 30 feet in depth, by 300 feet in width of that depth, and consisted of \$500,000. For every additional two feet in the depth of the channel, each depth of specified width, he is to receive \$500,000, while after a channel 24 feet in depth has been obtained he is to receive \$250,000 for maintaining it, with a like amount for preserving each additional depth of two feet in a channel 30 feet in depth by 350 in width, which is the desired channel, is obtained, \$4,250,000 will have been paid, the remaining \$1,000,000 to be held as security by the Government, \$500,000 of which is to be held for ten years. He is also to receive \$100,000 per annum for maintaining this channel 20 years.

The Silver King Mine.

A correspondent to the Mining and Scientific Press dated Globe City, Arizona, October 25, and signed J. D. E., gives a column and a half of closely printed notes on the Silver King mine.

We glean a few extracts in order that our readers may know what other men and important journals think of our country. The writer to the Press says:

"In coming from San Francisco to Globe District, Arizona, I laid over a few days at Pioneer District, thirty-five miles nearer Florence, mainly with a view of taking a general extended look at the above named well known mine."

"* * * A Constock mine, looking at the white rock on the Silver King dump, will almost think himself in Virginia City, and until he goes off some distance to the north or south, where shafts are being sunk in harder granite material, he will find nothing that will take the 'grindstone' shape."

There have been numerous opinions given, also, in reference to the Silver King mine being a "slide" or a "faulted" body of rock which had come from higher ground, and in respect to its being laid out by the locators as an east and west lode, when its true course was really north and south. So far as a careful examination of the surface enabled me to judge, I could see no evidence of such "faulting" as would swing the ledge completely out of its place. The vein is regular, with a southwest and northeast strike, its dip being to the northwest.

I see no reason why the mine should cease to be productive. It has yielded in high-grade ores several hundred thousand dollars, and will I have no doubt, if properly managed, continue to enrich its owners for years to come.

I had not an opportunity of visiting all the mines of the district, but I saw enough to convince me that, by the effective application of capital there is a prosperous future for it, and liberal returns to those who skillfully engage in developing its resources.

SOME Frenchmen have recently patented a contrivance for obtaining instantaneous light by merely depressing a button. The movement enables an electric current to pass through a platinum wire, heating it to redness; the wire being surrounded by an atmosphere saturated with benzene, quickly becomes white hot. That lights a small lamp, which burns benzoline, and gives a very bright light. The whole apparatus is compact and portable.

A FRENCHMAN has perfected a scheme for stopping runaway horses. An electro-magnet is placed under the driver's seat, and connected with the bit by a wire running along the animal's spine. A sudden shock will bring up the wildest horse and make him define his position.

A WELL known Ritualistic divine seldom preached longer than fifteen minutes. When remonstrated with, as he sometimes was, for his too short sermon he would answer: "When you get to remember all I can say in fifteen minutes, then I will give you more."

That Other Opinion.

The Alta's correspondent whose just allusion to Florence we noticed last week, continued his journey up into the Globe country. He made an extended trip through that District, examined the mines thoroughly and then submitted a careful and honest opinion of what he had seen.

In our notes on the bonanzas of Arizona we have thought it advisable now and then to clip the opinions expressed in popular papers in order to impress upon our readers that our "mining talk" is not mere home "brag." Therefore we have submitted some of J. D. E.'s remarks on the Silver King, and the following are some of the Alta's correspondent notes on the Stonewall Jackson vein, and the Richmond Basin, and first of the Stonewall Jackson, or McMillen claim, he says:

Through the courtesy of Thomas Riley, the foreman of the mine, I was enabled to go through the mine and make a thorough inspection. A shaft had been sunk on the mine to the depth of ninety feet, showing metal in a solid seam of silver from within five feet of the surface to the bottom of the shaft, from two to nine inches in thickness.

This vein lies upon the foot-wall of the mother vein of the country, and so far as developed, shows to be over three hundred feet in length of metal. I estimated the amount of silver above the fifty-five foot level and three hundred feet in length to be over two million seven hundred thousand dollars, estimating the veins as averaging two inches in width. All of the deepest workings show the vein to be from four to nine inches in thickness. Two shipments of ore, of three tons each, have already been sent from this mine. The ore is estimated to be worth from fifteen to twenty thousand dollars per ton. I learn from G. N. Freeman, Secretary of the Company at the mine, the exact cost of extracting the first three tons taken after the mine was purchased. The total was twenty-five hundred and seventy-five dollars. The three tons were worth at least forty-five thousand dollars. I saw large slabs of solid metal taken from this mine, which weighed from two hundred and fifty to three hundred pounds each. I had an assay made from the best ore from the Stonewall Jackson mine, which produced per ton thirty-two thousand four hundred and eighty-six dollars and nine cents. I had several assays made, which ran from fifteen to twenty-four thousand dollars per ton.

RICHMOND BASIN.

This peculiar formation is located twelve miles from Globe City, and on the west side of the Apache Mountains. It is a small depression of their base. A portion of the ledges of this locality lie horizontal. In these flat ledges is found, in large quantity, chloride, or horn silver, lying next to the bed-rock above which is a stratum of loam, from three to ten feet in depth. There have been taken out from this class of mines, \$125,000 in ores, that run from \$5000 to \$15,000 per ton, and \$50,000 will cover all the expenses incurred in taking out this amount of ore. Several men have become rich from the products of their placer silver mines in this Basin. Still, there are hundreds of thousands remaining in this class of mines. There are thousands of tons of loamy matter which will yield from \$100 to \$300 per ton by mill process. There are some well-defined veins in this same Basin, one of which is the McMorris Mine, a ledge of four to six feet in width. The ore in this mine, from wall to wall, will average over \$300 per ton. From the past records of this Basin and its present condition, I conclude that its future will be the realization of a bright promise. There can be no doubt about it.

Reclamation Alkali Land.

How to reclaim alkali land is a problem of some interest in several agricultural sections of Southern California. Some time since the Grange at Westminster, Los Angeles county, sent a sample of strong alkali soil to Professor Hilgard, of the State University, asking his analysis and opinion on the subject. The Gazette, of Anaheim, now informs us that Professor Hilgard wrote to the Grange that, by applying from 600 to 1000 pounds per acre of gypsum to the soil, the alkali could be overcome. It should be stated that the sample of soil sent up for analysis was taken from a tract of land that absolutely refused to produce anything. Mr. McPherson, the farmer who furnished the sample, decided to experiment in accordance with Professor Hilgard's suggestion. He therefore put gypsum on the land, to the amount of 1000 pounds per acre, and secured splendid corn from the soil so treated, while the land all around it, planted and cultivated in the same way, but without the gypsum, failed to produce even so much as a weed. This was certainly a thoroughly practical demonstration that gypsum will cure alkali land. It is stated by the Gazette that supposed deposits of gypsum have been discovered conveniently near at hand, in Santiago cañon, and samples of these deposits have now been sent to Professor Hilgard. If the discovery proves to be in fact gypsum, a large area of well located, but at present sterile alkali land, will be made exceedingly valuable at very small cost.—San Diego Union.

CHARLES T. MARTIN has been appointed postmaster at McMillenville, in Globe District, Arizona, and on the 20th, H. L. Hart, was confirmed by the Senate as Indian Agent at San Carlos.

THE recent terrible floods in the Argentine Republic have been the most disastrous ever known there. Hundreds of families have been ruined, and 40,000 head of cattle, and 8,000,000 sheep have perished.

"Och," said a love-sick Hibernian, "what a recreation it is to be dying of love! It sets the heart aching so delicately there's no taking a wink of sleep for the pleasure of the pain!"

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